Summer School 2016

The NGB30 SANS Breakout Session

Afternoon Sessions. Total close to 4 hours 15 minutes

In the Classroom Intro. 1 hours 45 minutes
-- "Introduction to Neutron Scattering" and "SANS Nuts and Bolts" (B. Hammouda)
-- "SANS Experiment Planning" and "Online Info"
-- "SANS Data Analysis" and "SANS from SDS Micelles" (B. Hammouda)

At the Instrument (C. Gagnon, B. Hammouda) 1 hour 0 minutes
-- Describe the SANS instrument in detail
-- Go over the three "standard" configurations
-- Go over data collection for 5 % SDS in d-ethanol/d-water mixtures from 10 ^{o}C to 50 ^{o}C
-- Show the various sample environments
-- Distribute the Questions sheet

-- Break 30 minutes

In the Classroom Data Reduction (C. Gagnon) 1 hour 0 minutes
-- Follow the reduction of SANS data for 5 % SDS in 10% d-ethanol at 10 ^{o}C
-- Participants reduce themselves SANS data for the same sample at 30 ^{o}C and 50 ^{o}C
-- Plot the reduced data for the various temperatures to assess the trends

Morning Sessions… Total close to 3 hours 15 minutes

In the Classroom Data Analysis I
-- Go over the Questions & Answers sheet (B. Hammouda) 15 minutes
-- Model fitting for the reduced data files (B. Hammouda, C. Gagnon) 1 hour 15 minutes

-- Break 30 minutes

In the Classroom Data Analysis II
-- Go over the results described in the NGB30 handout (B. Hammouda) 15 minutes
-- SDS Micelles Paper – Material Balance Equations (B. Hammouda) 15 minutes
-- Chapter 42 from the SANS Toolbox (B. Hammouda) 30 minutes
-- Finalize, Any Questions? 15 minutes

To Do…

Present the Tuesday experiment
Prepare presentation on Thursday and Friday
Presentations on Friday